(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and		ls
	Rating class and limiting features		Rating class and limiting features 			
5: Okoboji	 Somewhat limited Seepage 	0.70 	Depth to saturated zone	1.00 1.00	 Cutbanks cave	 0.30 0.10
8: Dickman	· -		 Somewhat limited Seepage			1 1.00
8B: Dickman	· · · · · · · · · · · · · · · · · · ·		 Somewhat limited Seepage 		•	1 1 1 1 1 1 1 1 1 1
8D2: Dickman	· -				 Very limited No ground water 	11.00
2B: Bode	 Somewhat limited Seepage		 Somewhat limited Piping			11.00
2C2: Bode	 Somewhat limited Seepage		Piping		 Very limited No ground water	11.00
2D2: Bode			 Somewhat limited Piping	 		11.00
2E2: Bode			Piping			1 1.00
5: Nicollet	 Somewhat limited Seepage 	0.70 	Depth to saturated zone	1.00 		 0.30 0.10
2: Estherville			 Somewhat limited Seepage 			 1.00

Hancock County, Iowa

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees _	, and	Aquifer-fed excavated ponds	
	Rating class and limiting features		Rating class and limiting features			
2B: Estherville			 Somewhat limited Seepage		 Very limited No ground water	1 1.00
2C2: Estherville		•	 Somewhat limited Seepage 		 Very limited No ground water	11.00
2D2: Estherville	Seepage				 Very limited No ground water 	11.00
3C2: Salida			 Somewhat limited Seepage 	•	. 4	1 1 1 1 1 1 1 1 1 1
0: Okoboji	 Somewhat limited Seepage 	 0.70 	Depth to saturated zone Ponding	11.00		 0.30 0.10
5: Harps			 Very limited	11.00	 Somewhat limited Slow refill	 0.30 0.10
07: Webster	 Somewhat limited Seepage 			 	 Somewhat limited Slow refill	 0.30 0.10
35: Coland	= =	0.70		11.00	•	 0.30 0.10
88B: Clarion	 Somewhat limited Seepage	 0.70	 Very limited Piping	 1.00	 Very limited	11.00
38C2: Clarion	 Somewhat limited Seepage	 0.70	 Very limited Piping	 1.00	 Very limited No ground water	1 1.00

Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
			Rating class and limiting features 			
138D2:	 		 			1
Clarion		 0.70 0.01		11.00	Very limited No ground water 	11.00
74: Bolan			 Somewhat limited Seepage		 Very limited No ground water	1 1 1 1 1 1 1 1 1 1
174B: Bolan			 Somewhat limited Seepage 			1 1 1 1 1 1 1 1 1 1
221: Palms			 Very limited Depth to saturated zone Ponding	11.00		 0.10
224: Linder			 Very limited Depth to saturated zone Seepage	1.00 		 1.00
236B:	 		 		 	
Lester			Somewhat limited Piping			11.00
236C2: Lester			 Somewhat limited Piping			1 1.00
236D2: Lester	Seepage		Piping			1 1.00
236F: Lester			 Somewhat limited Piping 			1 1.00
259: Biscay	 Very limited Seepage 		 Very limited Depth to saturated zone Seepage		 Very limited Cutbanks cave	1 1.00

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Hancock County, Iowa

Map symbol and soil name	Pond reservoir ar 	eas	Embankments, dikes levees	, and	•	ls
	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	
274: Rolfe	 Somewhat limited Seepage 	 0.70 	saturated zone Ponding	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.30 0.10
288: Ottosen	 Somewhat limited Seepage 		 Very limited Depth to saturated zone	11.00	 Somewhat limited Slow refill Cutbanks cave	0.30
308: Wadena	 Very limited Seepage		 Very limited Seepage		 Very limited No ground water	1 1 1 1 1 1 1 1 1 1
308B: Wadena	 Very limited Seepage		 Very limited Seepage		 Very limited No ground water	1 1.00
335: Harcot	 Very limited Seepage 	1 1.00	 Very limited Depth to saturated zone Seepage	11.00	 Very limited Cutbanks cave 	11.00
348: Fieldon	 Very limited Seepage 	 1.00 	saturated zone Ponding	11.00	•	11.00
384: Collinwood	 Somewhat limited Seepage 		 Somewhat limited Hard to pack 			 0.99 0.81 0.10
384B: Collinwood	 Somewhat limited Seepage 	 0.01 	 Somewhat limited Hard to pack 	0.05	Depth to water	 0.99 0.81 0.10

Hancock County, Iowa

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features		 Rating class and limiting features 			
888: Kossuth	 Somewhat limited Seepage 	 0.70 	 Very limited Depth to saturated zone 	 1.00 	i İ	 0.30 0.10
90: Waldorf		 0.43	 Very limited Depth to saturated zone Hard to pack	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.57 0.10
185B: Spillville	 Somewhat limited Seepage 	 0.70	 Somewhat limited Piping 	 0.50	 Somewhat limited Depth to water Slow refill Cutbanks cave	 0.81 0.30 0.10
506: Wacousta	 Somewhat limited Seepage 	 0.70 	saturated zone Ponding	11.00	 Cutbanks cave	 0.30 0.10
007: Canisteo	 Somewhat limited Seepage 		 Very limited Depth to saturated zone Piping	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.30 0.10
511: Blue Earth	 Somewhat limited Seepage 	 0.70 	saturated zone Piping	1.00 		0.30
524: Linder	 Very limited Seepage 		 Very limited Depth to saturated zone Seepage	11.00	I	1 1.00
562D2: Storden	 Somewhat limited Seepage Slope 		 Very limited Piping 	1.00	 Very limited No ground water 	11.00

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Hancock County, Iowa

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features		Rating class and limiting features			
562E2: Storden	Seepage		 Very limited Piping 		 Very limited No ground water 	1 1.00
662F2: Storden					 Very limited No ground water	11.00
621: Houghton	 Very limited Seepage 		organic matter Depth to saturated zone	 1.00 1.00		
540C2: Sunburg	 Very limited Seepage		 Somewhat limited Seepage			11.00
540D2: Sunburg	 Very limited Seepage Slope		 Somewhat limited Seepage 			11.00
540E2: Sunburg	 Very limited Seepage Slope				 Very limited No ground water 	1 1.00
540F2: Sunburg	 Very limited Seepage Slope		 Somewhat limited Seepage 		 Very limited No ground water 	1 1.00
641B: Clarion	 Somewhat limited Seepage		 Very limited Piping		 Very limited No ground water	1 1 1 1 1 1 1 1 1 1
Sunburg	 Very limited Seepage		 Somewhat limited Seepage		 Very limited No ground water	11.00
641C2: Clarion	 Somewhat limited Seepage 		 Very limited Piping 		 Very limited No ground water 	 1.00

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Hancock County, Iowa

Map symbol and soil name	Pond reservoir ar 	eas	Embankments, dikes levees	Embankments, dikes, and levees		ls
	Rating class and limiting features 		Rating class and limiting features 			
Sunburg					 Very limited No ground water	1 1.00
541D2: Clarion	Seepage		 Very limited Piping	i I	 Very limited No ground water 	1 1.00
Sunburg	Seepage		 Somewhat limited Seepage 			1 1.00
641E2: Clarion	Seepage	0.70 0.04	Piping 		 Very limited No ground water 	1 1.00
Sunburg	Seepage		Somewhat limited Seepage			1 1.00
42D2: Sunburg	Seepage		 Somewhat limited Seepage 			 1.00
Salida	Seepage		 Somewhat limited Seepage 			1 1.00
554: Corwith		0.70 	Depth to saturated zone	11.00		 0.30 0.10
555: Crippin		0.70 	Depth to saturated zone	1.00 	 Somewhat limited Slow refill Cutbanks cave	0.30
558: Mayer	. 4		Depth to saturated zone	11.00		1 1.00

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes, and levees		d Aquifer-fed excavated ponds	
	Rating class and limiting features		Rating class and limiting features		 Rating class and limiting features 	
659:	1		 		 	
Mayer	Very limited Seepage 		Very limited Depth to saturated zone Seepage	1.00	i İ	 1.00
787B: Vinje	 Somewhat limited Seepage 	1 1 1 1 1 1 1 1 1 1	 Not limited 	 	 Very limited No ground water 	1 1 1 1 1 1 1 1 1 1
787C2: Vinje	 Somewhat limited Seepage 	10.70	 Not limited 		 Very limited No ground water 	1 1.00
811: Muskego	 Very limited Seepage 	1.00	saturated zone	11.00	 Somewhat limited Cutbanks cave 	0.10
823: Ridgeport	 Very limited Seepage		 Somewhat limited Seepage		 Very limited No ground water	11.00
323B: Ridgeport	 Very limited Seepage		 Somewhat limited Seepage		 Very limited No ground water	1 1.00
836B: Kilkenny	 Somewhat limited Seepage		 Somewhat limited Hard to pack	0.12	 Very limited No ground water	1 1.00
336C2: Kilkenny	 Somewhat limited Seepage		 Somewhat limited Hard to pack		 Very limited No ground water	1 1.00
836E2: Kilkenny	 Somewhat limited		 Somewhat limited		 Very limited	
	Seepage Slope	0.57 0.02	Hard to pack 	0.12	No ground water	11.00
379: Fostoria	 Somewhat limited Seepage	0.70	•	1 1.00	 Somewhat limited Slow refill	1 1 1 1 0 . 30
	 		saturated zone Piping	10.64	 Cutbanks cave 	0.10

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Hancock County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features		Rating class and limiting features 			Value
956:			 		 	
Harps	- Somewhat limited Seepage		Very limited Depth to saturated zone		Somewhat limited Slow refill	0.30
			 		Cutbanks cave 	0.10
Okoboji	- Somewhat limited Seepage 		saturated zone	11.00		 0.30
				1.00 0.73	Cutbanks cave 	0.10
L032:			 		 	1
Spicer	- Somewhat limited Seepage		Very limited Depth to saturated zone	11.00	Somewhat limited Slow refill	10.30
			•		Cutbanks cave	0.10
1052B:			 		 	
Bode	- Somewhat limited Seepage		Somewhat limited Piping		Very limited No ground water	11.00
Kamrar	- Somewhat limited Seepage	0.70	 Not limited 		 Very limited No ground water	11.00
1135: Coland	 - Somewhat limited	 	 Very limited		 Somewhat limited	
	Seepage	0.70		11.00	Slow refill	0.30
					 Cutbanks cave 	0.10
221: Palms	 - Very limited Seepage	11.00	 Not rated Not rated		 Somewhat limited Cutbanks cave	 0.10
			Not rated Content of	 1.00	 	
			organic matter Depth to	 1.00	 	
			saturated zone		I	
1259:	 -	1	 		 	
Biscay	- Very limited Seepage				Very limited Cutbanks cave 	11.00
		i I	saturated zone Seepage		l	i i

Map symbol and soil name	rond reservoir areas		Embankments, dikes, and levees		Aquiter-fed excavated ponds	
			 Rating class and limiting features 			
39: ruman		1.00			No ground water	1 1.00
39B: ruman	•				No ground water	11.00
06: /acousta	 Very limited Seepage 	1.00 	Depth to saturated zone Ponding Piping	11.00	 	 1.00
07: grownton	 Not limited 			11.00	 Very limited Slow refill Cutbanks cave	11.00
95: arpster	 Somewhat limited Seepage 	1 1 1 0.70	 Very limited Depth to saturated zone 		 Somewhat limited Slow refill Cutbanks cave	0.30
33: alco			 Very limited Depth to saturated zone 	11.00	 Somewhat limited Slow refill Cutbanks cave	 0.30 0.10
22: drian	=	1.00 	saturated zone Ponding	1.00 1.00	Cutbanks cave 	 1.00
00: Than Land	 Not rated 		Seepage Not rated 	0.13 	 Not rated 	

USDA-NRCS, IOWA 07/16/2004

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

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Map symbol and soil name	 Pond reservoir are 	eas	 Embankments, dikes levees	s, and		ls
	Rating class and limiting features	Value	Rating class and limiting features			
5010: Pits	 Not rated 		 Not rated	 	 Not rated	
5040: Orthents	 		 Not rated 		 Not rated 	
AW: Animal Waste	 		 Not rated 		 Not rated	
INT: Intermittent Water	 		 Not rated 		 Not rated 	
SL: Sewage Lagoon	 		 - Not rated - -		 Not rated 	
√: Water	 		 - Not rated -		 Not rated 	